

**National Asset Delivery  
Technical Surveys and Testing**

**Works Information for  
601201 - A30 Tavistock to Liftondown  
BD MP 130.0 to 134.4 FHS – Feasibility**

**CCTV Survey**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
0	0	Original version issued with tender	KR	12/12/19

FOR INFORMATION ONLY  
DO NOT COMPLETE AT THIS STAGE

**TABLE OF CONTENTS**

<b>1</b>	<b>Description of the works.....</b>	<b>4</b>
<b>2</b>	<b>Existing Information.....</b>	<b>Error! Bookmark not defined.</b>
<b>3</b>	<b>Constraints on how the Contractor Provides the Works.....</b>	<b>6</b>
<b>4</b>	<b>Requirements for the programme.....</b>	<b>8</b>
<b>5</b>	<b>Services and other things provided by the <i>Employer</i> .....</b>	<b>9</b>
<b>6</b>	<b>Specification for the works.....</b>	<b>10</b>

**LIST OF ANNEXES**

**Appendix 1** **Supplementary Constraints**

FOR INFORMATION ONLY  
DO NOT COMPLETE AT THIS STAGE

## 1 DESCRIPTION OF THE WORKS

### 1.1 Project objectives

- 1.1.1 The principle objective of this project is to carry out a CCTV survey of the existing drainage network as shown in drawing HE601201-KIER-HDG-A30\_MP130 - MP134.4-DR-CD-0100\_21-24. Drainage Survey and Asset inventory is not required for the existing drainage network.
- 1.1.2 The specification that applies to the *works* is included in Section 6

### 1.2 Scope of works

- 1.2.1 The *works* to be provided under this contract are:

- (1) CCTV survey of the existing drainage system within the area shown on drawings HE601201-KIER-HDG-A30\_MP130 - MP134.4-DR-CD-0100\_21-24.
- (2) Heavy Jetting and root cutting to be carried out to the existing drainage where blockages are encountered.

### 1.3 Deliverables

- 1.3.1 The *Contractor* is required to produce the following deliverables:

- (1) CCTV Survey of the existing drainage system as shown on drawings HE601201-KIER-HDG-A30\_MP130 - MP134.4-DR-CD-0100\_21-24.
- (2) CCTV Survey summary report in PDF and digital data format.
- (3) CCTV Survey drawings in DXF and PDF format.
- (4) CCTV Survey data to be packaged with a propriety viewer in addition to the standard data.
- (5) The CCTV survey report shall consist of the following digital data:
  - video recordings referenced in the coded survey data, as detailed in the video recordings requirements;
  - photographs referenced in the coded survey data, as detailed in the photographs requirements;

## 2 EXISTING INFORMATION

2.1.1 The inventory details of the existing drainage system are shown on drawings: HE601201-KIER-HDG-A30\_MP130 - MP134.4-DR-CD-0100\_21-24.

2.1.2 The Drawings listed below apply to this contract. Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

Drawing Number	Title	Revision / Date
HE601201-KIER-HDG-A30_MP130-MP134.4-DR-CD-0000_01	Location Plan	C1/ Aug 2019
HE601201-KIER-HDG-A30_MP130 - MP134.4-DR-CD-0100_21-24	CCTV Survey Location Plan	C1/ Aug 2019

FOR INFORMATION ONLY  
DO NOT COMPLETE AT THIS STAGE

### 3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS

#### 3.1 General

- 3.1.1 The *Contractor* Provides the Works in such manner as to minimise the risk of damage or disturbance to or destruction of third party property.
- 3.1.2 The *Contractor* complies with the constraints and meets with the requirements outlined in Appendix 1.
- 3.1.3 The *Contractor* submits information detailing how the *Contractor* will provide the Works to the *Employer* prior to the works commencing. This information will include any lifting plans, risk assessments, method statements, the *Contractor's* staff training information and any other relevant Health and Safety requirements.

#### 3.2 Working hours & site specific constraints

- 3.2.1 The Contractor's working hours for site works shall be 19:30 – 06:00
- 3.2.2 *Contractor* to remain within the Highways Boundaries for the duration of the works, except where agreed with both the *Employer* and the land owner in advance, as per clause **Error! Reference source not found..**
- 3.2.3 Access to the site will be via the A30 eastbound and westbound carriageway traffic management. The traffic management is likely to consist of lane closures (lane 1 & 2) of the eastbound and westbound carriageways for the scheme extents MP130.0-MP134.4 (8800m).
- 3.2.4 The drainage survey works require entry into confined spaces (drainage chambers, pipes and outfalls etc), the Contractor is to provide risk assessment and method statement for confined spaces work.

#### 3.3 Health, Safety and Environment & Risk Management

##### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 The *Contractor* shall comply with the requirements of Highways England's safety passport scheme and ensure that all of his employees, and any of his subcontractor's, are registered in accordance with the implementation of the scheme. Details on the scheme can be found here:  
<http://www.highwayssafetyhub.com/safety-passport.html>
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found here 601201\_ PCI CCTV SURVEY & 601201\_ FRM\_ Hazard Identification CCTV Survey

- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

Risk Management

- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period.

FOR INFORMATION ONLY  
NOT COMPLETE AT THIS STAGE

#### 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works taking into account the following programme constraints:
- (i) the *starting date* and *completion date* and any post site works, reporting and review period
  - (ii) The services and other things provided by *Employer* (see Section 5)
- 4.1.3 The programme should be in the form of an activity and time related bar chart, produced as a result of a critical path analysis.
- 4.1.4 The programme should preferably be provided in either a PDF or MS Excel format and cover the full contract period including post site activities. Activities should be clearly defined and named and the programme should detail the following:
- (i) dates and times associated with the project, including the starting date, completion date & Contractor's planned completion, and any other dates or times that will specifically impact the delivery of the project;
  - (ii) activities associated with delivering the project;
  - (iii) for each activity, the proposed resources (plant & labour) expected to deliver the activity should be shown on the programme;
  - (iv) review periods for any reporting requirements;
  - (v) key dates for the Employer to provide 'services and other things';
  - (vi) key dates for co-ordination with Others.
- 4.1.5 The *Consultant* updates the programme 2 weeks. The *Consultant* submits an updated programme to the *Client* upon request.

## 5 SERVICES AND OTHER THINGS PROVIDED BY THE *EMPLOYER*

5.1.1 The following temporary traffic management will be provided by the *Employer* to allow the *Contractor* to Provide the Works:

- (1) The traffic management is likely to consist of a lane 1 closure for any verge works, and two lane 2 closures for any central reservation works. This will be required on the eastbound and westbound carriageways for the scheme extents MP130.0-MP134.4 (8800m eastbound and westbound). The traffic management is to be installed after 19:30 and removed before 06:00. The traffic management arrangements are to be confirmed by the employer to the contractor prior to the works.

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) Welfare facilities will be provided by the principle contractor.

FOR INFORMATION ONLY  
DO NOT COMPLETE AT THIS STAGE

## 6 SPECIFICATION FOR THE WORKS

- 6.1.1 The *Contractor* shall undertake the works in accordance with: drawings with the specified area shown on drawing;
- 6.1.2 The *Contractor* must provide the *works* under a quality management system which is certified to ISO 9001 & BS 11000 and Environmental management system which works to ISO14001.
- 6.1.3 The Drainage Survey is to be carried out in accordance with the Design Manual for Roads and Bridges, Volume 4 Geotechnics and Drainage, Part 10, CS 551 Drainage Surveys.
- 6.1.4 The condition of drainage assets is to be carried out in accordance with the Design Manual for Roads and Bridges, Volume 4 Geotechnics and Drainage, Part 4, CD 535 Drainage Asset Data and Risk Management.
- 6.1.5 **Schedule of Requirements, Appendix A1 General Requirements;**
- The Drainage Survey to be carried out to existing eastbound, westbound verge and central reserve drainage (MP130.0 to MP134.4) is to include the following survey types:
    - e) pipework and chambers defect survey by CCTV.
  - The location of the Drainage Survey to be carried out is shown on drawings HE601201-KIER-HDG-A30\_MP130 - MP134.4-DR-CD-0100\_21-24.
  - The works will have the following constraints;
    - a) access to the site will be by the A30 westbound carriageway traffic management;
    - b) drainage survey works are to be carried out week days from 19:30pm to 06:00am.
  - The classification of the site for the use of electrical equipment in potentially explosive atmospheres, in accordance with DSEAR S.I. No. 2776 [Ref 2.I], is the site is classified as Zone 2.
  - The responsibility for traffic management will be by others arranged by the Overseeing Organisation's representative.

### 6.1.6 Appendix A2 Survey Requirements.

#### A2.1 General.

- There is no off-highway working, use of off-road vehicles are not required.

#### A2.2 Pipework and chambers defect survey by CCTV.

- Pan and tilt CCTV camera will be required.
- Forced ventilation of pipework and/or culverts will not be required.
- Pre-cleansing of the drainage system is not required.
- If any blockages are encountered to the pipework the following is to be carried out to continue the survey and clear the blockages;
  - a) survey the pipework run from the other direction, then proceed to remove the blockage by cleansing.
- Root cutting may be required.

### 6.1.7 Appendix A3 Reporting Requirements.

#### A3.1 General – Not Any.

#### A3.2 Pipework and chambers defect survey by CCTV

- The summary report is required in PDF format in addition to digital data.
- CAD drawings in DXF and PDF formats are required in addition to digital data.
- The survey data is to be packaged with a proprietary viewer in addition to the standard data deliverables.
- Interim survey data or report will not be required during the survey.
- The survey data is to be transferred by internet transfer.